

What is claimed is:

1. A method of producing an LED rope light, comprising the steps of:

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preparing a plurality of metal wires having two conductive plates connected to two ends thereof, and a plurality of open-topped light seats defining a recess therein and being provided at two transverse ends with two opposite and symmetrical notches;

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assembling said metal wires to said light seats, so that each said light seat has two said metal wires separately extended through said two notches on said light seat with one said conductive plate from each said metal wire fitly located in said recess defined in said light seat; said two conductive plates located in the same one said recess being separated from each other;

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firmly attaching an LED chip to one of said two conductive plates in said recess of each said light seat by means of a bonding agent, and then connecting a metal conductor at positive and negative electrodes thereof to said LED chip and the other said conductive plate, respectively, so that said a plurality of light

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seats are electrically connected at a positive electrode of a first one to a negative electrode of a next one to provide a light string;

5 separately positioning said light seats in each said light string in forming molds and sending said forming molds into an encapsulating compound injector for encapsulation, sending said forming molds with said light seats and injected encapsulating compound into
10 a drying oven, allowing said encapsulating compound to set and form a mask over each said LED chip, so that an LED light string is formed;

preparing a power cord holder that is provided in
15 two sidewall portions with two separated power cords having different polarities for connecting to positive and negative electrodes at two outmost ends of said LED light string formed from said light seats; and

20 positioning said power cord holder along with said LED light string implanted therein into an injection-molding machine, so that said power cord holder with said implanted LED light string is quickly
25 enclosed in a transparent outer tube drawn from said injection-molding machine to form an LED rope light,

and connecting a connector adapted to connect to a power source to an end of said LED rope light.

2. The method of producing an LED rope light as claimed
5 in claim 1, wherein each of said conductive plates is a rectangular plate and is provided at two lateral sides with two oppositely projected teeth for pressing against inner surfaces of two lateral sides of said recess in said light seat.
- 10 3. The method of producing an LED rope light as claimed in claim 1, wherein each of said conductive plates is a trapezoidal plate having a shorter inner transverse end and a longer outer transverse end.
- 15 4. The method of producing an LED rope light as claimed in claim 1, wherein said transparent outer tube has a round cross section.
- 20 5. The method of producing an LED rope light as claimed in claim 1, wherein said transparent outer tube has a rectangular cross section and is provided on outer surfaces with a plurality of circles of axially spaced grooves.
- 25 6. The method of producing an LED rope light as claimed

in claim 4, wherein said power cord holder is a hollow tubular member and cut at a top thereof to provide a longitudinal V-sectioned opening, via which said light seat are implanted into an internal space of said hollow power cord holder, and inner and outer bottom surfaces of said power cord holder opposite to said V-sectioned opening being formed into a flat surface and a convex surface, respectively.

7. The method of producing an LED rope light as claimed in claim 5, wherein said power cord holder is a hollow tubular member and cut at a top thereof to provide a longitudinal V-sectioned opening, via which said light seat are implanted into an internal space of said hollow power cord holder, and has flat upper and lower outer surfaces and two convex lateral outer surfaces to correspond to said rectangular cross section of said transparent outer tube.

8. The method of producing an LED rope light as claimed in claim 1, wherein said power cord holder is in the form of a long strip having a plurality of through holes equally spaced thereon for said light seats on said LED light string to separately locate in said through holes.

9. The method of producing an LED rope light as claimed
in claim 8, wherein said transparent outer tube is
a substantially rectangular-sectioned tube having
a convex top, a flat bottom, and two flat sidewalls,
5 and defining a rectangular-sectioned inner space for
drawing said long strip of power cord holder into
said outer tube.